WHAT IS CLAIMED IS:

1.   An image processing device for performing a conversion processing of image data, comprising:

input means for inputting image data;

5   enlargement/reduction magnification setting means for setting an enlargement/reduction magnification of the image data inputted by said input means;

data converting means having a plurality of image data conversion tables and using one selected

10   conversion table to convert said inputted image data to output data; and

table selecting means for selecting said conversion table in accordance with the enlargement/reduction magnification set by said

15   enlargement/reduction magnification setting means.

2.   An image processing device according to Claim 1, wherein said table selecting means selects the conversion table in which a change amount of output

20   image data is enlarged with respect to the change amount of input image data when the enlargement magnification is set to a predetermined value or more.

3.   An image processing device according to Claim

25   1, wherein said table selecting means selects the conversion table in which a change amount of output image data is reduced with respect to the change amount

of input image data when the reduction magnification is set to a predetermined value or less.

4. An image processing device according to Claim 1, further comprising judging means for judging from the inputted image data whether or not image includes a multiplicity of data of an intermediate density portion, wherein

when the enlargement magnification is set to a predetermined value or more and said judging means judges that the multiplicity of data of the intermediate density portion are not included, said table selecting means selects the conversion table in which a change amount of output image data is enlarged with respect to the change amount of input image data.

5. An image processing device according to Claim 1, further comprising judging means for judging from the inputted image data whether or not image includes a multiplicity of data of an intermediate density portion, wherein

when the reduction magnification is set to a predetermined value or less and said judging means judges that the multiplicity of data of the intermediate density portion are included, said table selecting means selects the conversion table in which a change amount of output image data is reduced with

respect to the change amount of input image data.

6. An image processing device according to Claim 1, further comprising mode selecting means for
5 selecting either a character mode or a photograph mode as a data conversion mode in said data converting means, wherein

when the enlargement magnification is set to a predetermined value or more and said mode selecting
10 means selects the character mode, said table selecting means selects the conversion table in which a change amount of output image data is enlarged with respect to the change amount of input image data.

15 7. An image processing device according to Claim 1, further comprising mode selecting means for selecting either a character mode or a photograph mode as a data conversion mode in said data converting means, wherein
20 when the reduction magnification is set to a predetermined value or less and said mode selecting means selects the photograph mode, said table selecting means selects the conversion table in which a change amount of output image data is reduced with respect to
25 the change amount of input image data.

8. An image processing device according to Claim

1, further comprising luminance/density converting means for converting luminance data to density data, wherein

said input means inputs the luminance data, and

5   said luminance/density converting means converts the luminance data to the density data and outputs the density data, and

said data converting means uses the selected table to input the density data from said luminance/density

10   converting means, and converts the density data to output density data.

9.   An image processing device according to Claim 1, wherein said input means inputs luminance data, and

15   said data converting means uses the selected table to convert the inputted luminance data to density data.

10.   An image processing device for performing a conversion processing of image data, comprising:

20   input means for inputting image data;

enlargement/reduction magnification setting means for setting an enlargement/reduction magnification of the image data inputted by said input means;

table calculating means for calculating a

25   conversion table for converting input image data to output image data; and

data converting means using the conversion table

calculated by said calculating means to convert said inputted image data to output data, wherein

said table calculating means calculates said conversion table in accordance with the

5   enlargement/reduction magnification set by said enlargement/reduction magnification setting means.

11.   An image processing device according to Claim 10, wherein said calculating means obtains the

10   conversion table by applying primary conversion to prestored conversion table values.

12.   An image processing device according to Claim 11, wherein when the enlargement magnification is set

15   to a predetermined value or more, said table calculating means applies the primary conversion to obtain the conversion table in which a change amount of the output image data is enlarged with respect to the change amount of the input image data.

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13.   An image processing device according to Claim 11, wherein when the reduction magnification is set to a predetermined value or less, said table calculating means applies the primary conversion to obtain the

25   conversion table in which a change amount of the output image data is reduced with respect to the change amount of the input image data.

14. An image processing device according to Claim 11, further comprising judging means for judging from the inputted image data whether or not image includes a multiplicity of data of an intermediate density

5   portion, wherein

        when the enlargement magnification is set to a predetermined value or more and said judging means judges that the multiplicity of data of the intermediate density portion are not included, said

10   table calculating means applies the primary conversion to obtain the conversion table in which a change amount of the output image data is enlarged with respect to the change amount of the input image data.

15   15. An image processing device according to Claim 11, further comprising judging means for judging from the inputted image data whether or not image includes a multiplicity of data of an intermediate density portion, wherein

20   when the reduction magnification is set to a predetermined value or less and said judging means judges that the multiplicity of data of the intermediate density portion are included, said table calculating means applies the primary conversion to

25   obtain the conversion table in which a change amount of the output image data is reduced with respect to the change amount of the input image data.

16. An image processing device according to Claim 11, further comprising mode selecting means for selecting either a character mode or a photograph mode as a data conversion mode in said data converting

5 means, wherein

when the enlargement magnification is set to a predetermined value or more and said mode selecting means selects the character mode, said table calculating means applies the primary conversion to

10 obtain the conversion table in which a change amount of the output image data is enlarged with respect to the change amount of the input image data.

17. An image processing device according to Claim

15 11, further comprising mode selecting means for selecting either a character mode or a photograph mode as a data conversion mode in said data converting means, wherein

when the reduction magnification is set to a

20 predetermined value or less and said mode selecting means selects the photograph mode, said table calculating means applies the primary conversion to obtain the conversion table in which a change amount of the output image data is reduced with respect to the

25 change amount of the input image data.

18. An image processing device according to Claim

10, further comprising luminance/density converting means for converting luminance data to density data, wherein

said input means inputs the luminance data, and

5 said luminance/density converting means converts the luminance data to the density data and outputs the density data, and

said data converting means uses the table calculated by the table calculating means to input the

10 density data from said luminance/density converting means, and converts the density data to output density data.

19. An image processing device according to Claim

15 10, wherein said input means inputs luminance data, and said data converting means uses the table calculated by the table calculating means to convert the inputted luminance data to density data.

20 20. An image processing method for performing a conversion processing of image data, comprising:

an input process of inputting image data;

an enlargement/reduction magnification setting process of setting an enlargement/reduction

25 magnification of the image data inputted by said input process;

a data converting process having a plurality of

image data conversion tables and using one selected
conversion table to convert said inputted image data to
output data; and

a table selecting process of selecting said
5   conversion table in accordance with the
enlargement/reduction magnification set by said
enlargement/reduction magnification setting process.

21.   An image processing method, comprising:
10   an input process of inputting image data;
an enlargement/reduction magnification setting
process of setting an enlargement/reduction
magnification of the image data inputted by said input
process;
15   a table calculating process for calculating a
conversion table for converting input image data to
output image data; and

a data converting process for using the conversion
table calculated by said calculating process to convert
20   said inputted image data to output data, wherein
said table calculating process comprises
calculating said conversion table in accordance with
the enlargement/reduction magnification set by said
enlargement/reduction magnification setting process.